SANTA CRUZ BIOTECHNOLOGY, INC.

TIPUH1 (G-14): sc-248830

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TIPUH1, also known as ZNF689 (zinc finger protein 689), is a 500 amino acid nuclear protein that belongs to the Krüppel C_2H_2-type zinc-finger protein family. TIPUH1 contains 12 C_2H_2-type zinc fingers, one KRAB domain and may be involved in transcriptional regulation. The gene that encodes TIPUH1 consists of nearly 8,000 bases and maps to human chromosome 16p11.2. Encoding over 900 genes and consisting of approximately 90 million base pairs, chromosome 16 makes up nearly 3% of the human genome and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, when mutated, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. Alterations in the CREB gene and NOD2 gene, both of which are located on chromosome 16, results in Rubinstein-Taybi syndrome and Crohn's disease, respectively. An association with systemic lupus erythematosis and a number of other autoimmune disorders with the pericentromeric region of chromosome 16 has led to the identification of SLC5A11 as a potential autoimmune modifier.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF689 (human) mapping to 16p11.2; Zfp689 (mouse) mapping to 7 F3.

SOURCE

TIPUH1 (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TIPUH1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-248830 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TIPUH1 (G-14) is recommended for detection of TIPUH1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TIPUH1 siRNA (h): sc-93117, TIPUH1 siRNA (m): sc-154284, TIPUH1 shRNA Plasmid (h): sc-93117-SH, TIPUH1 shRNA Plasmid (m): sc-154284-SH, TIPUH1 shRNA (h) Lentiviral Particles: sc-93117-V and TIPUH1 shRNA (m) Lentiviral Particles: sc-154284-V.

Molecular Weight of TIPUH1: 56 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.